

PRODUCT BULLETIN
GYPSUM PRODUCTS

GYPSUM WALLBOARD
5/8" NULL-A-FIRE
HIGH DENSITY TYPE X
KW-503 -- 1 HOUR

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DATE: 6-3-75
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APPROVALS:

ASTM C36

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PRODUCING PLANTS: Long Beach, Antioch, Seattle, Jacksonville and Delanco.

All Plants

Board Stucco	(S-1, S-2)	1950 - 2150
Paper Fiber	(B-G-1)	10 - 15
Vermiculite Ore	(RM-B-28)	120 - 130
Glass Fiber	(RM-B-5)	5.8 - 6.2
Starch	(RM-B-11)	9.0 - 17
Dextrose	(RM-B-3)	0 - 3
Core Foaming Agent		
ALS	(B-G-1)	0.0 - 1.0
AAS	(B-G-1)	0.0 - 0.8
Lignin	(B-G-1)	2 - 4
End Trim	(B-G-1)	10 - 30
Potassium Sulfate	(B-G-1)	1.5 - 2.0
Retarder	(B-G-1)	0.0 - 1.5
Hydrated Lime	(RM-P-3)	0 - 1.2

Paper Liners: Use Grade 7010 Partition Board Manila and Grade 7013 Partition Board Greyback for face and back paper respectively, widths as required for 24", 30" and 48" wide KW-503 panels.

OPERATING SPECIFICATIONS: (Refer to Product Bulletin B-G-2 for General Specifications)

All Plants

Slurry Slump	5½ - 9
Slurry Setting Time (minutes)	2 - 5
Wet Slurry Weight (lbs/c.f.)	70 - 80
Wet Compressive Strength, psi	250 - 450

Moisture content at the take-off shall be maintained at 10% to 25%, average 14%.

SPECIAL NOTE: Admix screw may have to be operated at at least 75% of maximum speed in order to handle this volume of vermiculite ore.

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OPERATING SPECIFICATIONS: (continued)

SPECIAL NOTE: Feeding two or more boxes of glass at slower speed is better practice than feeding one box at high speed.

SPECIAL NOTE: High density board will require special handling at the wet and dry end. All transfer belts MUST be in good condition and adjusted for maximum traction. Heavy board will slip unless equipment is in good order.

PRODUCT SPECIFICATIONS: (Refer to Product Bulletin B-G-4 for General Specifications)

	All Plants
Wet Weight (lbs/MSF)	3600 - 3800
Dry Weight (lbs/MSF)	2600 - 2800
Evaporation Loss (lbs/MSF)	1000 - 1200
Thickness - Average (in)	.615 - .640
Thickness - Individual Reading (in)	± .010 From Average

Profile - Variations in surface of back plane shall not be greater than 0.010" within a 6" span measured across the width. Check profile at cut off frequently.

Edges - Bevel-Edge

Edge Hardness at Take-off (lbs) - 8.0 Minimum - 13 Average - 18 Maximum

End Peel After Sawing (in) - 1/8 Maximum

Flexural Strength (min)	
Across Grain (lbs)	180
Parallel (lbs)	62
(UL Minimum - 62)	
Deflection at Break (min)	
Across Grain (in)	0.25
Parallel (in)	0.15
Punch Test (lbs)	600 - 1000

Gypsum Product

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APPROVALS:

BBK JR - W

ASTM C 36

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PRODUCT SPECIFICATIONS: (continued)

All Plants

Twist Test, Maximum Split

Face (in)

3/4

Back (in)

3/4

Hammer Loss Test (Decigrams)

Individual Test (max)

5.0

Bond at High Humidity (max peel)

Face (in)

1/2

Back (in)

1/2

Back Printing shall read:

5/8" KW 503 - TYPE X

X TYPE - 503 KW 5/8"